

Claims

1. Gemstone, characterized by a preferably plate-shaped support having a surface with at least one pyramid-shaped depression and supporting a precious stone layer (1) produced by gas phase deposition.
2. Gemstone according to claim 1, characterized in that the support is silicon wafer.
3. Gemstone according to claim 2, characterized in that the support is a wafer of (100) or (111) orientation.
4. Gemstone according to claim 1, characterized in that the support is comprised of a precious metal.
5. Gemstone according to claim 1, characterized in that the support is comprised of hard metal.
6. Gemstone according to claim 1, characterized in that the support is comprised of a refractive metal such as tungsten or molybdenum.
7. Gemstone according to one of the claims 1 through 6, characterized in that the pyramid-shaped depressions are produced by mechanical, for example, cutting or stamping, means.

8. Gemstone according to one of the claims 1 through 6, characterized in that the pyramid-shaped depressions are produced by etching.
9. Gemstone according to one of the preceding claims, characterized in that the pyramid angle of the depressions within a support may differ.
10. Gemstone according to one of the preceding claims, characterized in that the pyramid angle of the depressions is approximately 109° .
11. Gemstone, according to one of the preceding claims, characterized in that the grain boundaries of the precious stone layer (1) are aligned in a column shape.
12. Gemstone according to one of the preceding claims, characterized in that the pyramid-shaped depressions have a mirror surface.
13. Gemstone according to one of the preceding claims, characterized in that the surface of the precious stone layer (1) is cut.
14. Gemstone according to one of the preceding claims, characterized in that the gemstone layer (1) has its own color produced by doping.

- 11 -

15. Gemstone according to one of the proceeding claims, characterized in that the surface of the support supporting the precious stone layer (1) is curved.

5

ADD A6
ADD 8, 7

ADD A7